

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A golf ball comprising a cover, wherein the cover is made from a cover material including a cured product of a thermosetting resin composition containing a thermosetting urethane resin composition; the thermosetting urethane resin composition comprises an isocyanate group-terminated urethane prepolymer and a polyamine compound;

the isocyanate group-terminated urethane prepolymer contains an isocyanate component formed by at least one diisocyanate compound selected from the group consisting of 4,4'-dicyclohexylmethane diisocyanate, cyclohexane diisocyanate and isophorone diisocyanate; and

the stiffness modulus and shore D hardness of the cover material satisfy the following equation:

$$2.0 \leq A/B \leq 5.0, \quad 40 \leq B \leq 60$$

A: Stiffness modulus (MPa)

B: Shore D hardness.

2. (Previously Presented) A golf ball according to claim 1, wherein the stiffness modulus and shore D hardness of the cover material satisfy the following equation:

$2.0 \leq A/B \leq 4.0$ .

3. (Original) A golf ball according to claim 1, wherein the stiffness modulus of the cover material is 80 to 260 MPa.

4. (Previously Presented) A golf ball according to claim 1, wherein the shore D hardness of the cover material is 45 to 55.

5. (Cancelled)

6. (Currently Amended) A method of producing a golf ball having a cover made from a material including a cured product of thermosetting resin composition comprising:

selecting a cover material satisfying the following equation:

$2.0 \leq A/B \leq 5.0$

$40 \leq B \leq 60$

A: Stiffness modulus (MPa)

B: Shore D hardness; and

covering a ball body with the cover material, wherein  
the cover is made from a cover material including a cured  
product of a thermosetting resin composition containing a  
thermosetting urethane resin composition;

the thermosetting urethane resin composition comprises an isocyanate group-terminated urethane prepolymer and a polyamine compound;

the isocyanate group-terminated urethane prepolymer contains an isocyanate component formed by at least one diisocyanate compound selected from the group consisting of 4,4'-dicyclohexylmethane diisocyanate, cyclohexane diisocyanate and isophorone diisocyanate.

7. (Previously Presented) The method according to claim 6, wherein the stiffness modulus and shore D hardness of the cover material satisfy the following equation:

$$2.0 \leq A/B \leq 4.0.$$

8. (Previously Presented) The method according to claim 6, wherein the stiffness modulus of the cover material is 80 to 260 MPa.

9. (Previously Presented) The method according to claim 6, wherein the shore D hardness of the cover material is 45 to 55.

10. (Cancelled).

11. (New) A golf ball according to claim 1, wherein the thermosetting urethane resin composition consists essentially of an isocyanate group-terminated urethane prepolymer and a polyamine compound.

12. (New) The method according to claim 6, wherein the thermosetting urethane resin composition consists essentially of an isocyanate group-terminated urethane prepolymer and a polyamine compound.